

FILE 'HOME' ENTERED AT 09:25:53 ON 14 NOV 2006

=> file caplus medline biosis embase
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

FILE 'CAPLUS' ENTERED AT 09:26:32 ON 14 NOV 2006
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=> file reg
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
3.15	3.36

FILE 'REGISTRY' ENTERED AT 09:27:31 ON 14 NOV 2006
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 12 NOV 2006 HIGHEST RN 913055-81-9
DICTIONARY FILE UPDATES: 12 NOV 2006 HIGHEST RN 913055-81-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> E "THEANINE"/CN 25

E1	1	THEANDEROSE/CN
E2	1	THEANIN/CN
E3	1 -->	THEANINE/CN
E4	1	THEANINE HYDROCHLORIDE/CN
E5	1	THEANINE HYDROLASE/CN
E6	1	THEANINE SYNTHETASE/CN
E7	1	THEARUBIGIN/CN
E8	1	THEARUBIGIN 1/CN
E9	1	THEARUBIGIN 2/CN
E10	1	THEARUBIGIN 3/CN
E11	1	THEARUBIN/CN
E12	1	THEASAPOGENIN A, CYCLIC ACETAL WITH ACETONE, TRIACETATE/CN
E13	1	THEASAPOGENIN D/CN

E14 1 THEASAPOGENOL A/CN
 E15 1 THEASAPOGENOL A, CYCLIC ACETAL WITH ACETONE/CN
 E16 1 THEASAPOGENOL A, PENTAACETATE/CN
 E17 1 THEASAPOGENOL A, TETRAACETATE/CN
 E18 1 THEASAPOGENOL B/CN
 E19 1 THEASAPOGENOL C/CN
 E20 1 THEASAPOGENOL D/CN
 E21 1 THEASAPOGENOL E/CN
 E22 1 THEASAPOGENOL E, TETRAACETATE/CN
 E23 1 THEASAPOGENOL F/CN
 E24 1 THEASAPONIN/CN
 E25 1 THEASAPONIN A1/CN

=> S E3

L1 1 THEANINE/CN

=> DIS L1 1 IDE

THE ESTIMATED COST FOR THIS REQUEST IS 1.90 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 3081-61-6 REGISTRY

ED Entered STN: 16 Nov 1984

CN L-Glutamine, N-ethyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glutamine, N-ethyl-, L- (6CI, 7CI, 8CI)

OTHER NAMES:

CN L-Theanine

CN NSC 21308

CN Suntheanine

CN Theanin

CN Theanine

FS STEREOSEARCH

MF C7 H14 N2 O3

CI COM

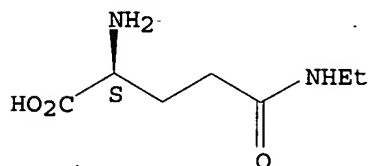
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CABA,
 CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CSCHEM, IPA, MEDLINE,
 NAPRALERT, PROMT, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

562 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

566 REFERENCES IN FILE CAPLUS (1907 TO DATE)

24 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus medline biosis embase

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

7.54

10.90

FILE 'CAPLUS' ENTERED AT 09:28:47 ON 14 NOV 2006
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FILE 'MEDLINE' ENTERED AT 09:28:47 ON 14 NOV 2006

FILE 'BIOSIS' ENTERED AT 09:28:47 ON 14 NOV 2006
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=> s 3081-61-6

L2 761 3081-61-6

=> s mood(w)disorder or bipolar(w)disorder

L3 63823 MOOD(W) DISORDER OR BIPOLAR(W) DISORDER

=> s l2 and l3

L4 3 L2 AND L3

=> d ti au abs so py 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

TI Compositions comprising theanine for treating or preventing mood disorders

IN Ozeki, Makoto; Juneja, Lekh Raj; Okubo, Tsutomu

AB A pharmaceutical composition for treating or preventing mood disorders, as well as a food or beverage for ameliorating or preventing mood disorders comprising theanine are provided. The pharmaceutical composition and the food and beverage are safe and have a significant suppressive effect on the depression in a mood disorder. For example, tablets were prepared by mixing frosted sugar 71.67%, trehalose 10%, L-theanine 13.33%, sucrose fatty acid ester 1%, and lemon flavor 4%, the mixture was granulated and compressed into a tablet of 0.75 g. The therapeutic effects of theanine tablets (200 mg theanine as one tablet twice a day) were demonstrated in patients with mood disorders with no side effects.

SO Can. Pat. Appl., 35 pp.

CODEN: CPXXEB

PY 2005

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

TI Composition and method for treatment of neurophysiological conditions and maintenance of neurophysiological health

IN McCleary, Edward Larry; Forest, Carl A.; McCleary, Christine

AB A composition and method for therapeutic treatment of undesirable neurophysiol. conditions, such as those associated with menopause, the peri-menstrual period, mental conditions such as mood disorders, hyperactivity, impulsiveness, difficulty concentrating, chronic pain conditions,

and including neurodegenerative disorders such as age-associated or acoustic-related hearing loss, central, peripheral or autonomic neuropathies and for maintenance of neurophysiol. health, the composition comprising (i) an effective amount of three agents selected from the group consisting of vinpocetine, huperzine A, magnesium, theanine, pyro-glutamic acid, dextromethorphan, and Vitex agnus-castus fruit; (ii) one agent selected from the group consisting of thiamin, niacin, pyridoxine, vanadium, and acetaminophen; and (iii) three agents selected from the group consisting of Valerian spp., Passiflora spp., magnolia spp., Scutellaria spp., taurine, melatonin, GABA and black cohosh. The composition

may also include an effective amount of an agent selected from the group consisting of white willow bark, dehydroepiandrosterone (DHEA), pregnenolone, ketone bodies, 5-hydroxytryptophan (5-HTP) and a racemic mixture of D,L-phenylalanine (DLPA). The method comprises administering the above composition to a human for a therapeutically effective period. The composition may also be combined with a food, beverage, condiment, spice or salad dressing base to provide a food, beverage, condiment, spice or salad dressing product designed to overcome or prevent undesirable conditions frequently associated with menopause, chronic pain or neurophysiol. degeneration. For example, a formulation for menopausal women with a wide, but fairly typical, symptom profile including hot flash symptoms, night sweats, intermittent irritability, and mild memory concerns contained a combination of magnesium 400 mg, vinpocetine 2 mg, huperzine 50 µg, theanine 100 mg, pyridoxine 20 mg, valerian extract 100 mg, taurine 150 mg, and magnolia extract 700 mg.

SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 890,067.

CODEN: USXXCO

PY 2005

2002

2005

2004

2005

2005

2006

2006

2006

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

TI Theanine for control of mood disorders

IN Koseki, Makoto; Okubo, Tsutomu; Juneja, Reka Raju; Yamazaki, Nagahiro

AB Theanine (I) prepared from tea extract or by enzymic preparation from glutamine and

ethylamine by glutaminase is used to prepare health food for control of mood disorders. Preparation of I-containing candies for control of mood disorders was shown. Unlike tricyclic antidepressant amitriptyline hydrochloride, I does not have side-effects such as drowsy and constipation.

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

PY 2003

2004

=> s despress?

L5 22 DESPRESS?

=> s depress?

L6 948764 DEPRESS?

=> s l2 and l6

L7 19 L2 AND L6

=> dup rem

ENTER L# LIST OR (END):17

PROCESSING COMPLETED FOR L7

L8 16 DUP REM L7 (3 DUPLICATES REMOVED)
ANSWERS '1-11' FROM FILE CAPLUS
ANSWERS '12-13' FROM FILE MEDLINE
ANSWERS '14-16' FROM FILE BIOSIS

=> d ti au so py 1-16

L8 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1

TI Effect of theanine on norepinephrine and serotonin levels in rat brain

AU Kimura, Ryohei; Murata, Toshiro
 SO Chemical & Pharmaceutical Bulletin (1986), 34(7), 3053-7
 CODEN: CPBTAL; ISSN: 0009-2363
 PY 1986

L8 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2
 TI Effect of alkylamides of glutamic acid and related compounds on the
 central nervous system. III. Effect of theanine on the spontaneous
 activity of mice
 AU Kimura, Ryohei; Kurita, Masako; Murata, Toshiro
 SO Yakugaku Zasshi (1975), 95(7), 892-5
 CODEN: YKKZAJ; ISSN: 0031-6903
 PY 1975

L8 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3
 TI Influence of alkylamides of glutamic acid and related compounds on the
 central nervous system. I. Central depressant effect of
 theanine
 AU Kimura, Ryohei; Murata, Toshiro
 SO Chemical & Pharmaceutical Bulletin (1971), 19(6), 1257-61
 CODEN: CPBTAL; ISSN: 0009-2363
 PY 1971

L8 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Compositions comprising theanine for treating or preventing mood disorders
 IN Ozeki, Makoto; Juneja, Lekh Raj; Okubo, Tsutomu
 SO Can. Pat. Appl., 35 pp.
 CODEN: CPXXEB
 PY 2005

L8 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Modulating effects of Japanese food materials on human brain function
 AU Hatakeyama, Eiko
 SO Nippon Eiyo, Shokuryo Gakkaishi (2005), 58(2), 107-111
 CODEN: NESGDC; ISSN: 0287-3516
 PY 2005

L8 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Method for enhancing the natural reward system for exercise
 IN Halevie-Goldman, Brian D.
 SO U.S. Pat. Appl. Publ., 9 pp.
 CODEN: USXXCO
 PY 2004

L8 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Oral composition for suppressing the appetite of a human being comprising
 L-theanine
 IN Spiegel, Peter
 SO U.S. Pat. Appl. Publ., 4 pp.
 CODEN: USXXCO
 PY 2004

L8 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Composition comprising theanine
 IN Ueda, Tomoko; Nagato, Yukiko; Tanaka, Yukiko; Okubo, Tsutomu; Kobayashi,
 Kanari; Aoi, Nobuyuki; Shu, Seiji; Juneja, Lekh Raj
 SO PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 PY 1999
 2001
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2003

- L8 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Effect of potassium, magnesium and sulfur applied in different forms of fertilizers on free amino acid content in leaves of tea (*Camellia sinensis* L.)
AU Ruan, Jianyun; Wu, Xun; Ye, Yong; Hardter, Rolf
SO Journal of the Science of Food and Agriculture (1998), 76(3), 389-396
CODEN: JSFAAE; ISSN: 0022-5142
PY 1998
- L8 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Suitable level of nitrogen fertilizer for tea (*Camellia sinensis* L.) plants in relation to growth, photosynthesis, nitrogen uptake, and accumulation of free amino acids
AU Okano, Kunio; Chutani, Koji; Matsuo, Kiyoshi
SO Nippon Sakumotsu Gakkai Kiji (1997), 66(2), 279-287
CODEN: NISAAJ; ISSN: 0011-1848
PY 1997
- L8 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
TI Relation between the flavor depressor and chemical composition in summer green tea
AU Nakagawa, Muneyuki; Anan, Toyomasa; Takayanagi, Hirotsugu
SO Chagyo Gijutsu Kenkyu (1978), (55), 71-7
CODEN: CHGKAV; ISSN: 0366-6123
PY 1978
- L8 ANSWER 12 OF 16 MEDLINE on STN
TI Effects of theanine on alcohol metabolism and hepatic toxicity.
AU Sadzuka Yasuyuki; Inoue Chieko; Hirooka Saho; Sugiyama Tomomi; Umegaki Keizo; Sonobe Takashi
SO Biological & pharmaceutical bulletin, (2005 Sep) Vol. 28, No. 9, pp. 1702-6.
Journal code: 9311984. ISSN: 0918-6158.
PY 2005
- L8 ANSWER 13 OF 16 MEDLINE on STN
TI Glutamate transporter mediated increase of antitumor activity by theanine, an amino acid in green tea.
AU Sadzuka Yasuyuki; Yamashita Yasuyo; Kishimoto Shuichi; Fukushima Shoji; Takeuchi Yoshikazu; Sonobe Takashi
SO Yakugaku zasshi : Journal of the Pharmaceutical Society of Japan, (2002 Nov) Vol. 122, No. 11, pp. 995-9.
Journal code: 0413613. ISSN: 0031-6903.
PY 2002
- L8 ANSWER 14 OF 16 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Behavioural effects of caffeine and theanine alone and in combination.
AU Haskell, C. F. [Reprint Author]; Kennedy, D. O.; Milne, A. L.; Wesnes, K. A.; Scholey, A. R.
SO Journal of Psychopharmacology, (SEP 2005) Vol. 19, No. 5, Suppl. S, pp. A45.
Meeting Info.: Summer Meeting of the British-Association-for-Psychopharmacology. Harrogate, ENGLAND. July 24 -27, 2005. British Assoc Psychopharmacol.
CODEN: JOPSEQ. ISSN: 0269-8811.
PY 2005

L8 ANSWER 15 OF 16 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI Effects of theanine on the release of brain alpha wave in adult males.
 AU Kim, Kyung-Soo [Reprint Author]; Song, Chan Hee; Oh, Han Jin
 SO FASEB Journal, (2004) Vol. 18, No. 4-5, pp. Abst. 370.11.
 http://www.fasebj.org/. e-file.
 Meeting Info.: FASEB Meeting on Experimental Biology: Translating the
 Genome. Washington, District of Columbia, USA. April 17-21, 2004. FASEB.
 ISSN: 0892-6638 (ISSN print).
 PY 2004

L8 ANSWER 16 OF 16 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
 STN
 TI EXCITATORY AMINO ACID RECEPTORS AND NEUROTOXINS OF PLANT ORIGIN.
 AU SHINOZAKI H [Reprint author]
 SO Shinkei Kenkyu No Shinpo, (1991) Vol. 35, No. 4, pp. 600-612.
 CODEN: SKNSAF. ISSN: 0001-8724.
 PY 1991

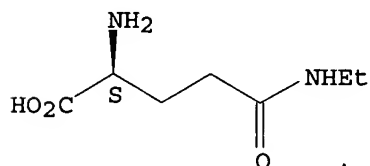
=> s suicide or retardat?
 L9 312629 SUICIDE OR RETARDAT?

=> s l2 and l9
 L10 0 L2 AND L9

=>

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 3081-61-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN L-Glutamine, N-ethyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Glutamine, N-ethyl-, L- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN L-Theanine
 CN NSC 21308
 CN Suntheanine
 CN Theanin
 CN Theanine
 FS STEREOSEARCH
 MF C7 H14 N2 O3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CABA,
 CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CSCHM, IPA, MEDLINE,
 NAPRALERT, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

562 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 566 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 24 REFERENCES IN FILE CAOLD (PRIOR TO 1967)